Linear actuator DSZY1-Encoder

Electric linear actuators are used in many different applications.

DSZY1-encoder is equipped with a rugged acme screw with high static force. It is a small, compact and lightweight dc-linear drive.

Internal diodes allow the easy change of direction by reversing the power-supply. All DSZY1-actuators have two end-switches integrated (not possible to adjust).
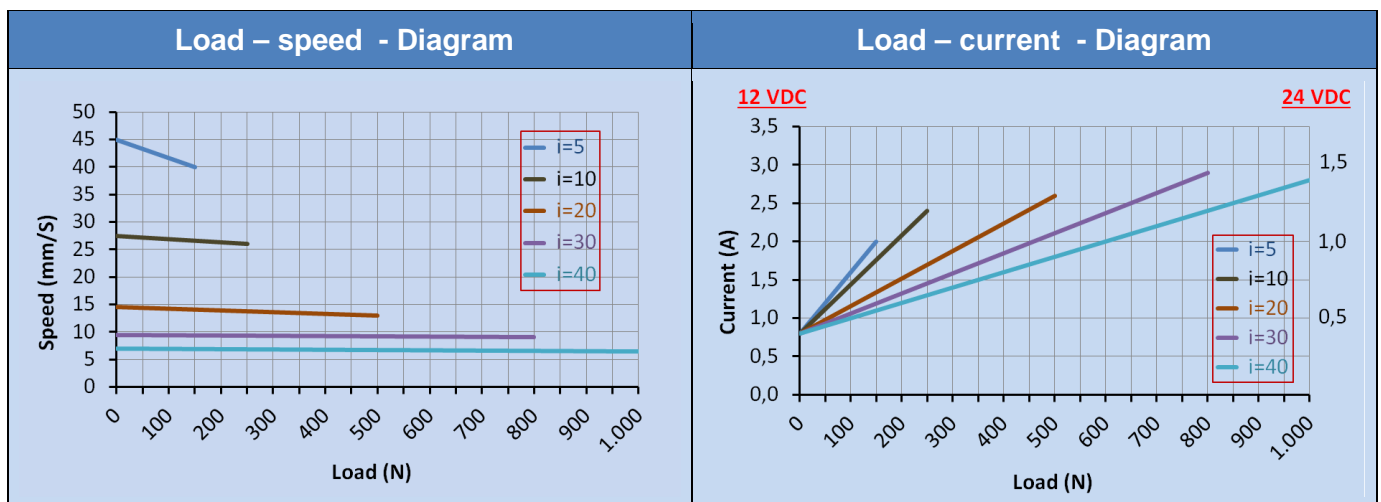
An overload-protection can be made by using a current control.

Model code

DSZY1	-	12	-	10	-	200	-	HS2 - IP65
Type		**Voltage**		**Gear reduction**		**Stroke**		**Encoder and protection type**
		12V		5		25mm		
		24V		10		50mm		
				20		100mm		
				30		150mm		
				40		200mm		
						250mm		
						300mm		

Diagram

Load – speed - Diagram	Load – current - Diagram

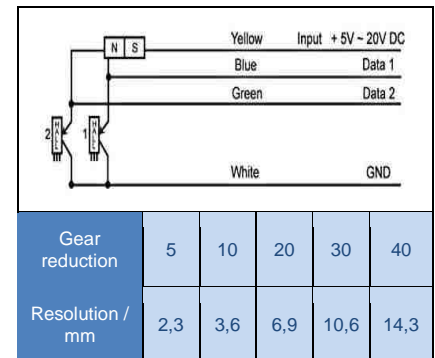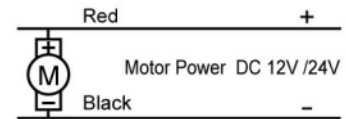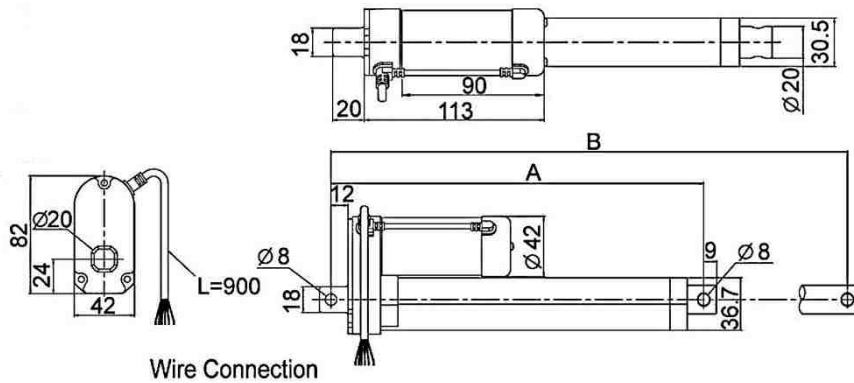## Additional technical data

- push/pull force: up to 1000N
- static force: 2000N (by i=40)
- Operating temperature: -26C°- 65C°
- Duty cycle: 25% (1min continuous operation in 4min)
- Zinc alloy housing
- Aluminium outer tube and stroke rod
- Voltage: 12 or 24 VDC
- hall sensors
- Protection type: IP65

Dimension

Linear actuator	length	mass in mm						
	stroke	25	50	100	150	200	250	300
DSZY1 - type Encoder	A	128	158	209	260	311	362	413
	B	153	208	309	410	511	612	713

Red +

Motor Power DC 12V /24V

Black −

	Yellow	Input + 5V ~ 20V DC
	Blue	Data 1
	Green	Data 2
	White	GND

Wire Connection

Gear reduction	5	10	20	30	40
Resolution / mm	2,3	3,6	6,9	10,6	14,3
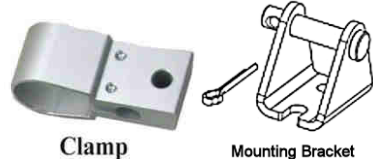
C1x Hole⌀8

C2x Plastic Connector

C3x Universal Joint

C1x – is standard

Options: C2x or C3x

Attention:

By C3x - the dimension A and B lengthens itself about +41mm

Clamp

Mounting Bracket

Mounting für actuator

Clamp: DSZY1-H01
Mounting Bracket: DSZY1-H02

Please additionally order.

Mounting instruction

Please make sure, that load is not bigger than shown in the diagram speed/load. If overload is possible in the application, please use a separate current control to switch off at too high current (= too high load). Nominal current, depending on ratio, is shown in the diagram current / load.
Please use the right voltage supply as it is shown on the actuator. For extending the piston rod connect the red cable with plus and the black cable with minus. Movement is stopped automatically at the end of the stroke. For moving back, reverse the polarity (change plus and minus). Endswitches are not adjustable by themselves.
Load should be centered in moving direction, shear forces should be avoid because of shortening the lifetime. Big shear forces can destroy the actuator! Be carefull.

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